

SLEBODZINSKI, Andrzej; WOJCIK, Kazimierz

The protein level and the trend of changes in serum protein fractions
in sheep receiving estrone injections. Acta physiol. polon. 13 no.4:
501-509 '62.

l. Z Laboratorium Biochemicznego Instytutu Zootechniki w Krakowie
i Zakladu Fizjologii Zwierząt Wyższej Szkoły Rolniczej w Krakowie
Kierownik: prof. dr Z. Ewy.
(BLOOD PROTEINS) (ESTRONE)

WOJCIK, K.; EWY, Z.

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1. Submitted May 8, 1965.

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Semiconductor converters used in vehicle lighting. Przegl.
elektrotechn 41 no.3:117-120 Mr '65.

1. Department of Lighting Techniques of the Institute of Electrical
Engineering, Warsaw.

STERNADEL, Zbigniew; MARIANOWSKI, Longin; WOJCIK, Maria

Labor in obese women. Zdrow. publiczne no.4/5:171-176 Ap-My '65.

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(Kierownik: prof. dr. med. T. Bulski).

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Improved circulation of condensates. Gosp paliw 11 Special
issue no. (95):37-38 Ja '63.

1. Fabryka Celulozy i Papieru, Klucze.

WOJCIK, M.; ROGUCKI, A.

Results of the measurements of voltage and frequency characteristics of a steady load. Pt. 2. p. 103

ENERGETYKA (Ministerstwo Gornictwa i Energetyki oraz Stowarzyszenie Elektrykow Polskich) Bytom, Poland. Vol. 13, no. 4, Apr 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959.
Uncl.

WOJCIK, Marian, inz.

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Biuletyn. Energetyka Pol 14 no.4:6-8 Ap '60. (EEAI 9:10)

1. Zaklad Systemow Energetycznych in Katowice.
(Poland--Electric lines)
(Poland--Railroads)

WOJCIK, Marian, mgr inz.

A conference devoted to scientific problems on methods of determining
the load curve prognosis and the power reserves for the planning of
power systems. Energetyka Pol 14 no.7:220-222 Jl '60. (EEAI 10:1)
(Poland--Electric power)

WOJCIK, Marian, inz.

Results of the load index tests for electric traction of the Polish Railroads. Pt.1. Energetyka Pol 15 no.2 Biuletyn:8 F '61. (EEAI 10:5)

1. Zaklad Sieci Elektrycznych Katowice.
(Poland--Railroads)

BOGUCKI, Antoni, dr., inz.; WOJCIK, Marian, inz.

Equations of natural static voltage characteristics of the reactive power received by typical consumer groups. Energetyka Pol 16 no.2: 53-56 '62.

1. Zaklad Sieci Elektrycznych.

BOGUCKI, Antoni, dr.inz.; WOJCIK, Marian, inz.

Steady-state voltage characteristics of the active power
consumption of typical groups of electric power consumers.
Energetyka Pol 16 no.7:213-215 Jl '62.

1. Instytut Energetyki, Warszawa.

BOGUCKI, Antoni, dr.inz.; WOJCIK, Marian, inz.

Equations of the steady-state frequency characteristics of active power consumption taken for typical consumer groups. Energetyka Pol. 16 no.8:251-253 Ag. '62.

1. Instytut Energetyki, Warszawa.

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Analysis and evaluation of cooling systems of thermal power stations. Pt. 1. Energetyka Pol 17 no. 7: Supplement: Energopomiar 9 no. 4:29-32 Jl '63.

1. Dzial Cieplny, Instytut Energetyki, Warszawa.

WOJCIK, Marian Antoni, mgr inz.

Analysis and evaluation of cooling systems of thermal electric power plants. Pt. 2. Energetyka Pol 17 no.11:Suppl.:Energopomiar 9 no.6344-48 N '63.

1. Pion Cieplny, Zaklad Badan i Pomiarow, Warszawa.

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Analysis and evaluation of cooling systems of thermal electric power plants. Pt. 3. Energetyka Pol 18 no. 1: Supplement: energopomiar 10 no. 1: 1-3 Ja '64.

1. Pion Cieplny, Zklad Badan i Pomiarow, Warszawa.

MAJEWSKI, Zdzislaw; WOJCIK, Maria

Measuring method of storage charge collected in p-n junctions as applied to the determination of the carrier lifetime in regions neighboring junctions of wide-base diodes.
Przegl elektroniki 4 no. 5/6: 317-322 My-Je '63.

1. Zaklad Elektroniki, Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa.

WOJCIK MARIJA
KUJAWSKA, Aleksandra; WOJCIK, Maria

Results of roentgenologic and electrocardiographic examinations
of the heart in silicosis. Polski tygod. lek. 12 no.21:803-806
20 May 57.

1. Z II Kliniki Chorob Wewnetrznych Slaskiej Akademii Medycznej
i z Dzialu Chorob Zawodowych Instytutu Medycyny Pracy w Przemysle
Weglownym i Hutniczym w Zabrzu; kierownik: prof. dr. med. W. Zahorski.
Adres: Zabrze, 3 Maja 13, II Klin. Chor. Wewn. A. M.

(SILICOSIS, physiology,

ECG & heart x-ray (Pol))

(ELECTROCARDIOGRAPHY, in various diseases,

silicosis (Pol))

(HEART, in various diseases,

silicosis, x-ray (Pol))

EXCERPTA MEDICA Sec.6 Vol.11/1 Internal Med. Jan 57
WÓJCIK M.

642. WÓJCIK M. II Klin. Chor. Wewnąt. Śląskiej A.M. i Działu Chor. Zawodowych Inst. Med. Pracy, Przemyśl Węglowym i Hutniczym, Zabrze. *Układ krążenia w ostrych zatrucia tlenkiem węgla w przemyśle. The circulatory system in acute carbon monoxide poisoning in industry MED. PRACY 1956, 7/1 (51-56)

Some authors suggest that carbon monoxide (CO) exerts toxic action on the metabolism of the cardiac muscle. The air containing 0.01% CO causes only slight symptoms, 1% concentration of CO in the air brings about death in a few minutes. Autopsy findings reveal, as a result of CO poisoning, punctate haemorrhages in the pericardium or small necrotic foci. Clinically there are headaches, dizziness, nausea, restlessness - the cardiac action accelerates, the second sound above the pulmonary artery becomes accentuated, blood pressure is lowered, the ECG reveals lowering of ST, P pulmonale and low voltage QRS extrasystoles, Wilson's block. Observations on 32 cases.

(VI, 17)

WOJCIK, Marian; OLES, Andrzej; KAMINSKA, Irena

Attempted domiciliary treatment of patients with viral hepatitis in
the city of Rzeszow in 1960 and 1961. Prezegl. epidem. 16 no.2:
233-235 '62.

1. Z Dzialu Epidemiologii Woj. Stacji San Epid. w Rzeszowie Dyrektor
Stacji: lek. med. Z. Mazurek.
(HEPATITIS INFECTIOUS ther)

BOGUCKI, Antoni, dr inz.; WOJCIK, Marian, inz.

Equations of steady-state frequency characteristics of reactive power consumption for typical consumer groups. Energetyka Pol 17 no.5:149-151 My '63.

1. Instytut Energetyki, Katowice.

P/053/63/000/003/003
E192/E382

AUTHORS: Majewski, Zdzisław and Wójcik, Maria

TITLE: Investigation of the influence of surface recombination
on the transient operation of a p-n junction

PERIODICAL: Przeglad elektroniki, no. 3, 1963, 163 - 167

TEXT: Ge-In junctions, the construction of which is illustrated in Fig. 1, were investigated. The Ge surface opposite the junction inside the Ni ring of the base was used as the recombination contact of the base. Changes in the Ge surface were induced either by gradual etching in boiling H_2O_2 or by sanding. This latter operation was performed by rubbing the surface with cotton wool wetted in fine carborundum paste or by a high-pressure water jet containing carborundum powder. The switching operation of the junction can be described either by measuring the charge accumulated in the near-junction area or by measuring the dependence of the inverse current after rapidly switching off the voltage from a junction which was conducting in the forward direction. It is shown that for a thin base the relationship between the transient or the switching parameter and the surface

Card 1/3

P/053/63/000/003/003
E192/E382

Investigation of ...

recombination velocity s is defined by:

$$\frac{1}{\tau_{ef}} = \frac{1}{\tau} + A_t \cdot \frac{s}{w} \quad (4)$$

where $\tau_{ef} = \Delta Q_s / \Delta I_p$ is the effective lifetime of the holes in the base (where ΔQ_s is the charge stored in the near junction region and ΔI_p is the conduction current prior to the switching-off), τ is the volume lifetime of the holes in the base and w is the thickness of the base. The constant in Eq. (4) is expressed by:

$$A_t = \frac{1}{L_p \sinh \frac{w}{L_p} + \frac{sL}{D} \left(\cosh \frac{w}{L_p} - 1 \right)} \quad (5)$$

Card 2/3

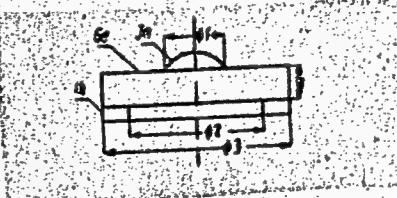
P/053/63/000/005/003/003
E192/E382

Investigation of ...

where L_p is the diffusion path of the holes in the n-region and D_p is the diffusion constant for the holes. Eq. (4) was used to investigate the possibility of determining the surface recombination velocity s from the stored-charge measurements. It was found that, in general, s determined by this method differed quite significantly from the results measured by the photoelectric method. However, this discrepancy can be eliminated if the constant A in Eq. (4) is determined experimentally for various values of w/L and various junction configurations. There are 6 figures and 1 table.

ASSOCIATION: Zaklad Elektroniki IPPT-PAN
(Electronics Laboratory, IPPT-PAN)

Fig. 1:



Card 3/3

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P/015/60/000/003/001/001
A076/A126

AUTHOR: Wojcik, Mieczyslaw

TITLE: Quartz glass - properties

PERIODICAL: Szkło i Ceramika, no. 3, 1960, 73 - 78

TEXT: Mechanical, optical, chemical and electrical properties of quartz glass are described. Production of non-transparent quartz glass began in Poland during 1958 in the Zakłady Szklarskie "Kara" (Glass Plant "Kara") in Piotrkow Trybunalski. In the first phase production of quartz blocks used to manufacture tank furnaces began in the glass plants "Wołomin" and "Polanka". Later, electrical insulators, thermocouple pipes and vessels for the chemical industry will be produced. The mechanical properties of non-transparent quartz glass, based on data compiled by V. P. Pryanishnikov and published in "Quartz Glass" 1956, Moscow and E. Goerlich published in "Chemia Krzemianów" (Silicia Chemistry) 1957, Warsaw, are given in Figure 1. Specific weight of non-transparent quartz glass ranges from 2.02 to 2.08 G/cm³. It has good tensile, bending and drawing strength and resists irregular heating. Further, it has good refractory properties compared to other type glass. It can withstand temperatures from 1,100 to 1,200°C and for a short

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Card 1/7

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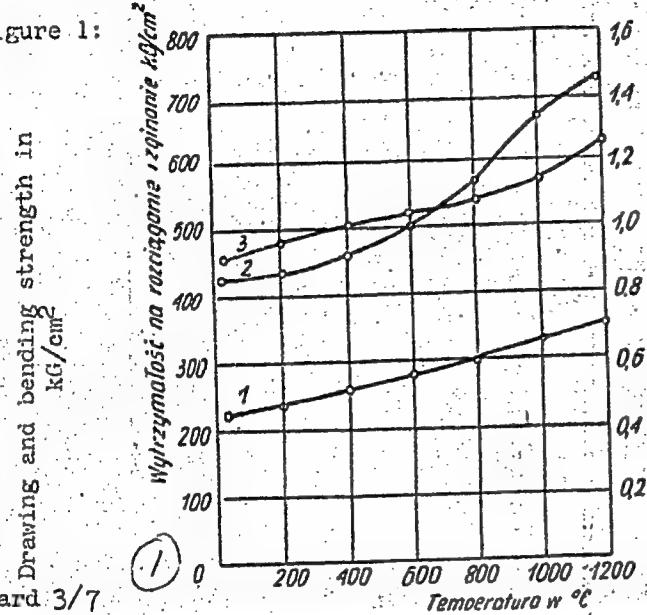
Quartz glass - properties

time even 1,400°C. Visible crystallization in non-transparent quartz glass begins at 1,200°C and in transparent glass at 1,300°C. Crystallization speed in non-transparent glass at 1,630°C. The crystallization depends on temperature and Figure 2 shows this dependence according to investigations made by G. A. Konovalov, F. A. Kurlakin and V. P. Pryanishnikov. Average heat capacity of quartz glass, according to the All-Union Institute of Refractory Materials, USSR, is shown in Table II. Quartz glass has the best electric properties and there are practically no dielectric losses. At normal temperature specific conductivity of non-transparent quartz glass is 10^{-16} , and for transparent $10^{-18} \text{ ohm}^{-1} \cdot \text{cm}^{-1}$. Figure 3 shows the increased electric conductivity of quartz glass in relation to higher temperatures. Dielectric endurance of transparent quartz glass at 20°C is 43 kv/mm and of non-transparent glass 32 kv/mm. In addition to the above electric properties, quartz glass allows the passage of ultra-violet rays, investigation results obtained by the Institute of Optics in Moscow with a 13-mm-thick quartz glass sample are given in Table IX. White light absorption coefficient does not exceed 0.002. Absorption coefficient of a 1-mm-thick quartz sample for a 280μ wave ranges from 0.0004 to 0.0008. There are 10 tables and 6 figures.

Card 2/7

Quartz glass - properties

Figure 1:



Card 3/7

20068

P/015/60/000/003/C01/C01
A076/A126

Mechanical endurance of non-transparent quartz glass in dependence on temperature, according to N. A. Konovalov; curve 1 - drawing strength; curve 2 - bending strength; curve 3 - bending impact strength.

20068

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A076/A126

Quartz glass - properties

Table II:

Temperature °C	Average heat capacity in kcal/kg°C	
	Transparent quartz glass	Non-transparent quartz glass
20	0.213	0.205
200	0.213	0.205
300	0.220	0.218
400	0.230	0.218
500	0.224	0.237
600	0.240	0.242
700	0.250	0.247
800	0.260	—
1,000	0.273	—

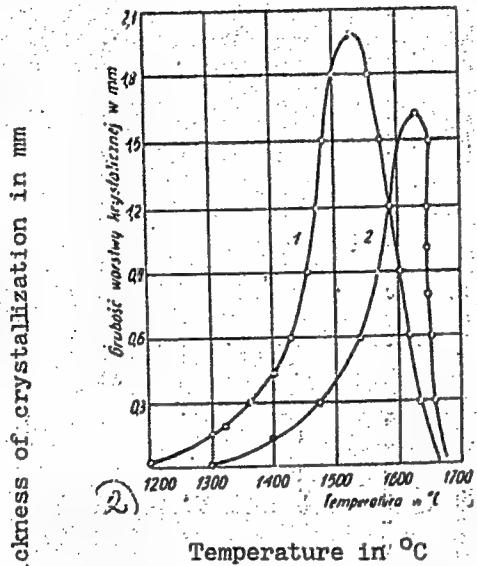
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A076/A126

Quartz glass - properties

Figure 2:



Crystallization speed of quartz glass in dependence on temperature according to G. A. Konovalov, F. A. Kurlankin and V. P. Pryanishnikov. Number 1 for non-transparent quartz; number 2 for transparent quartz.

Card 5/7

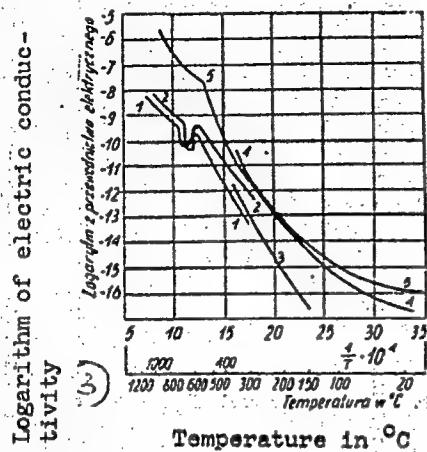
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Quartz glass - properties

Figure 3:



Temperature in °C

Electric conductivity depending on temperature. Curve 1 - transparent quartz glass; curve 2 - non-transparent quartz glass; curves 3 and 4 - non-transparent and transparent quartz, glass according to the Institute of Physics; curve 5 - transparent quartz glass, according to Mikhaylov.

Card 6/7

20068

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A076/A126

Quartz glass - properties

Table IX: Permeability of quartz glass to ultra-violet rays

Wave length in m μ	Permeability in %	Wave length in m μ	Permeability in %
217	6.0	248	50.9
220	10.1	252	62.0
224	21.2	256	73.0
226	28.0	260	82.0
228	34.0	264	87.0
230	38.0	268	90.0
230	40.9	272	91.0
234	41.9	276	91.2
236	41.9	280	91.6
238	41.3	290	92.0
240	41.3	300	91.8
242	41.9	350	92.0
244	43.5	400	92.4

Card 7/7

WOJCIK, P.

Current problems of construction in rural areas, p. 69

ZAGADNIEŃ EKONOMIKI ROLNEJ (Komitet Ekonomiki Rolnictwa Polskiej Akademii Nauk,
Instytut Ekonomiki Rolnej i Sekcja Ekonomiki Rolnictwa Polskiej Towarzystwa
Ekonomicznego) Warszawa, Poland. No. 1, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959.
Uncl.

Gawecka, I.; Wojcik, R.

Observations on the problem of biological and statistical evaluation of the activity of cardiac glycosides. Acta physiol. polon. 10 no.3:423-434 May-June 59.

1. Z Zakladu Farmakologii Instytutu Lekow w Warszawie Kierownik:
dr. J. Venulek.
(CARDIAC GLYCOSIDES, pharmacol.)

VENULET, Jan; WOJCIK, Ryszard

Basic methods of statistical analysis of biological problems.

Postepy biochem.6 no.1:83-113 '60.

(STATISTICS)

(BIOLOGY)

GAWECKA, Irena; SZMAL, Zdzislaw; WOJCIK, Ryszard

Evaluation of biological method for the determination of adrenalin
in drugs. Acta physiol.polon. 11 no.3:457-468 My-Je '60.

1. Z Zakladu Farmakologii Instytutu Lekow w Warszawie Kierownik:
doc. dr J.Venulew.
(EPINEPHRINE chem)

JANOWIEC, M.; WOJCIK, R.

Multiphasic evaluation of the activity of antitubercular drugs
on guinea pigs. Acta physiol.polon. 11 no.5/6:739-740 '60.

1. Z Zakladu Farmakologii Instytutu Lekow w Warszawie. Kierownik:
doc.dr J.Venulew.
(ANTITUBERCULAR AGENTS pharmacol)

Gawecka, Irena; Wojciech, Ryszard

Studies on the effect of pigeon's weight and of the time of determination on the biological activity of Digitalis purpurea. Acta physiol. Pol. 13 no.1:217-226 '62.

1. Zaklad Farmakologii Instytutu Lekow w Warszawie Kierownik: doc.
dr J. Venulet Katedra Statystyki Matematycznej SGGW Kierownik: prof.
dr Z. Nawrocki.

(DIGITALIS pharmacol)

JANOWIEG, Mieczyslaw; WOJCIK, Ryszard,A.; VENULET, Jan

Associated effect of isonicotinic acid hydrazide (INH) and
of some drugs influencing the macro-organism in experimen-
tal tuberculosis. Med. dosw. mikrobiol. 15 no.4:311-315 '63.

1. Z Zakladu Farmakologii Instytutu Lekow w Warszawie
(kierownik: doc.dr.med. J. Venulet) i z Katedry Statystyki
Matematycznej SGGW w Warszawie (kierownik: prof.dr. Z. Nawrocki).

MOJCIK, Szweryn, mgr inż.

Hydraulic gas accumulators with separated spaces for gas
and liquid. Przegl mech 23 no.14-400-402 25 J1 '62

Pl. Designer, Widzew Textile Machine Works, Łoziz.

WOJCIK, S.

Preparation for putting a peeling machine into motion. p. 21.
PRZEMYSŁ DRZEWNY, Warszawa, Vol. 6, no. 7, July 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

WOJCIK, S.

WOJCIK, S. The setting of a knife in a peeling machine. p. 274.

Vol. 6, No. 10, Oct. 1955

PRZEMYSŁ DRZEWNY

TECHNOLOGY

Warszawa, Poland

So: East Europeon Accession, Vol. 5, No. 5, May 1956

WOJCIK, S.

How we shall travel in 1959 and in the following years. p.44.

PRZEGŁAD KOLEJOWY DROGOWY. (Wydawnictwa Komunikacyjne) Warszawa, Poland
Vol.11, no.3, Mar. 1959

Monthly list of East European Accessions (EEAI) LC, Vol.8, no.7, July 1959

Uncl.

WOJCIK, S.

Rovimiz A, a concentrate of A vitamin for feeding purposes.
Przem sopzyw 16 no.1:48-49 Ja '62.

WOJCIK, Stanislaw

May fly fauna (Ephemeroptera) of the Vistula River near Tczew.
Biologia zesz nauk Poznan no.4:102-120 '63.

1. Institute of Systematic Zoology of the Adam Mickiewicz University, Poznan.

WOJCIK, STANISLAW

✓Chemical composition of coypu (*Myocastor coypus*) milk.
Stanislaw Wójcik and Zdzisław Zdzięćki (M.C.S. Univ.
Lublin, Poland). *Ann. Univ. Mariae Curie-Skłodowska,
Lublin-Polenia*, Sect. B, 9, 321-8 (1954).—Results of chem.
analysis of milk and colostrum of coypu are given. Milk:
sp. wt. 1.02, dry matter 38.4-42.3, inorg. matter 1.2-1.6,
N 1.8-2.4, total protein 11.6-15.1, casein 6.5-11.8, albu-
min 2.1-4.2, globulin 1.0-1.8, fat 20.3-31.4, lecithin 0.3;
lactose 0.2-1.1, Na 0.2, P 0.1, and total org. matter 40.3%;
carotene 200 μ , vitamin A 800 μ /%. Colostrum: sp. wt. 1,
dry matter 40.4, inorg. matter 3.3, org. matter 43.1, N 2.9,
total protein 18.3, casein 6.8, albumin and globulin 10.9,
fat 23.8, and lactose 0.8%.

R. Kudlich

FACZYNSKI, Andrzej; SZCZEKOT, Jozef; DUNAJ, Weronika; WOJCIK, Tadeusz

Excessive physiological mobility of the cervical spine in
children as a cause of diagnostic difficulties. Chir. narzad.
ruchu ortop. Pol. 28 no.7r787-791 '63

l. Z Kliniki Ortopedycznej Akademii Medycznej w Gdansku
(Kierownik: doc. dr. A. Senger).

WOJCIK, Tadeusz, mgr.inz.

The Ba 46 barge. Bud okretowe Warszawa 7 no.6:181 Je '62.

1. Biuro Konstrukcyjne Taboru Morskiego, Gdansk.

WOJCIK, Tadeusz, mgr inz.

Designing inland vessels in the Merchant Marine Craft Designing Office. Bud okretowe Warszawa 8 no.9:304-305, inserts A-C
S '63.

1. Biuro Konstrukcyjne Taboru Morskiego, Gdańsk.

WOJCIK, Tadeusz, mgr inż.

Czechoslovak and Hungarian shipyards. Bud okretowe Warszawa 8
no.4:112-114 Ap '63.

1. Biuro Konstrukcyjne Taboru Morskiego, Gdańsk.

POLAND/Nuclear Physics - Nuclear Power and Technology

C

Abs Jour : Ref Zhur Fizika, № 8, 1959, 17523

Author : Frankowski, W., Wagner, J., Wojcik, T.
Inst : -

Title : Conditions of the Economic Operation of Nuclear Power
Stations in Poland

Orig Pub : Nucleonika, 1958, 3, Spec. Number, 11-17

Abstract : No abstract.

Card 1/1

WOJCIK, T.

TECHNOLOGY

Periodicals: NORMALIZACJA. Vol. 26, no. 6/7, June/July 1958

WOJCIK, T. Concerning the unreality of some "real state!"; an answer to Dr. H. Stonert. p. 869.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

WOJCIK, T.

TECHNOLOGY

Periodicals: NORMALIZACJA. Vol. 26, no. 9, Sept. 1958

WOJCIK, T. A draft of a systematization standard. p. 120

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

WOJCIK, T.

Lesions associated with hardening of steel; report of acute case
of poisoning with sodium cyanide. Med. pracy 5 no.3:187-190 1954.

1. Z Wojewódzkiej Stacji Sanitarno-Epidemiologicznej w Kielcach.
(CYANIDES, poisoning,
sodium cyanide, occup. pois. in metal worker)
(OCCUPATIONAL DISEASES,
sodium cyanide pois. in metal worker)
(POISONING,
sodium cyanide, in metal worker)

ZEBROWSKI, Tadeusz; PIENIAZEK, Janina; BOROWIECKA, Anna; WOJCIK, Teresa;
JMDRUSZEK, Jerzy.

Practical value of repeated determination of isoniazid resistance
of the tubercle bacillus. Polski tygod.lek. 10 no.10:293-297 7 Mar
55.

1. Z Centralnego Laboratorium Państw. Zespołu Sanatoriów Przeciw-
grunzliczych w Otwocku; Kierownik Laboratorium: dr med. Tadeusz
Zebrowski. Otwock, ul. Reymonta 53 m. 5.

(MYCOBACTERIUM TUBERCULOSIS, effect of drugs on,
isoniazid resist., value of repeated determ.)

(NICOTINIC ACID ISOMERS, effects,
isoniazid on M. tuberc., resist., value of repeated
determ.)

WOJCIK, T.

General principles of subject classification, p. 378.
(NORMALIZACJA. Vol. 24, no. 7, July 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

WIKTOROWICZ, Maria; WOJCIK, Teresa

Examination of synthetic packages for some galenic preparations.
Ann. Univ. Lublin sect. D 19:235-240 '64.

1. Katedra i Zaklad Farmacji Stosowanej, Wydzial Farmaceutyczny
AM w Lublinie (Kierownik: prof. dr. farm. Henryk Nerlo).

WOJCIK, Tadeusz, mgr., inz.

Motor ship "Rokita" for cattle transportation.

Bud. okret 7 no. 3:71-75 Mr '62

WOJCIK, W.

WOJCIK, W. Problems with regard to the portioning of smoked-meat products. p. 17.
(per) Is white meat more digestible than dark meat? p. 18

Vol. 11, no. 9, Sept. 1956
PREMYSŁ GASTRONOMICZNY
TECHNOLOGY
Warsaw, Poland

So. East Accession Vol. 6, no. 2, Feb. 1957

WOJCIK, W.

"Remarks on Standardization in the Mining of Nonferrous Ores in Poland,"
P. 195. (WIADOMOSCI, Vol. 22, No. 4, Apr. 1954. Warszawa, Poland)

SO; Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

WOJCIK, Witold, mgr inz.

Increase of labor productivity in nonferrous ore mining.
Rudy i metale 9 no. 8:448-450 Ag '64.

POLAND/Chemical Technology - Chemical Products and Their
Application. Corrosion. Protection Against
Corrosion.

H-4

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 57806
Author : Wojcik Waclaw
Inst :
Title : The Use of Plating in the Repair Shipyard in Gdynia.
Orig Pub : Budown. okret., 1958, 3, No 2, 32.
Abstract : No abstract.

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of specimens previously quenched at supercritical rates from above
the A_c point. The electrolytes and the technique of electro-
polishing are described. Advantages and applications of the method
for studying the transformation of supercooled austenite, deter-
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R. B. Clegg

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✓ Electrolytic polishing of steel strip. Z. Wojciech (Inst. Met., Gliwice, Poland). Proc. Inst. Metalurgists Hudd. 6, 257-263 (1944) (English summary); cf. U.S. 2,414,526, 1947. In the present method W. polished C steel strips and wires by pulling them through an electrolyte at 70-80° contg. H_3PO_4 77, $H_2S_2O_8$ 9, CrO_3 8, and water 8 wt. %, the strips or wires being electrodes at a c.d. 50 amp./sq. dm., anodic potential 3.5-3.7 v., and residence time (in the electrolyte) 1-1½ min. After the electrolyte dissolved some Fe, it became more effective. Water and then Na_2CO_3 soln. rinsing followed. After drying, the strips or wires could be taken, merged in oil at 130° to protect them from corrosion. During electropolishing, H_3PO_4 and H_2SO_4 dissolved the thin layer of the metal while CrO_3 oxidized C (in this layer) to CO or CO_2 . From time to time Cr(III) had to be oxidized to Cr(VI) either by NH_4 per sulfate or preferably by anodic oxidation. In the latter case spent electrolyte was passed into a Pb tank serving as anode and provided with a Pt cathode surrounded by a diaphragm. Cd. on the anode was 0.5 and on the cathode 20 amp./sq. dm. Electropolishing

was better than mech. polishing because the former removed the thin stressed layer and made the edges smoother.

Frank J. Heide

WOTC/R, L.

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Electrolytic polishing of steel strip. Z. Wójcik (Prace Inst. Miedzi. Lublin, 1951, v. 257-263).—The problems of electrolytic polishing of ~0.8% C steel strip (cold-rolled with uniform structure and smooth surface), the selection and preparation of electrolytes capable of producing surfaces suitable for galvanising, and arrangements for continuous polishing operations (including control of the electrolyte, and the after-treatment of the strip) are discussed. A new method, utilising additional contacts in an electrolyte consisting of a mixture of H_2SO_4 , H_3PO_4 and chromic acid, with cathodes placed perpendicular to the steel surface, is described. The surface finish obtained is suitable for immediate galvanising, without pickling.

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